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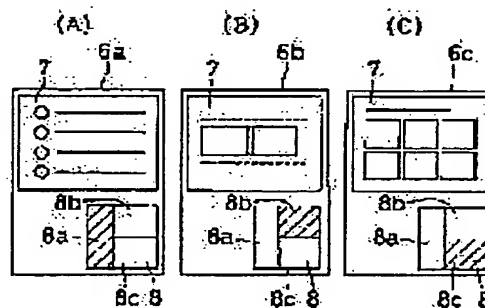
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(54) DOCUMENT DISPLAY DEVICE

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a document display device capable of obtaining high visibility by displaying plural documents associated with each other simultaneously on document display areas as the whole of the plural documents without displaying them simultaneously on single display means.

SOLUTION: When document selection areas 8 are displayed on display screens 6a-6c of a display part and a single area is selected from among plural areas 8a-8c of the document areas 8, document data corresponding to the selected single area are displayed in the document display area 7 of the display screen. Consequently, relations among plural documents, for example, positional relations are recognized by the positional relations among respective areas 8a-8c of the document areas 8 and, moreover, specific document data are recognized by being displayed in the display area 7. Thus, high visibility is obtained by displaying the plural documents as the whole of them without displaying them on the single display part simultaneously.



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CLAIMS

[Claim(s)]

[Claim 1] Document data characterized by comprising the following for displaying a multimedia document containing a picture, a character, etc.

A memory measure which memorizes document data containing associated data in which it is shown whether it is connected with other document data.

A displaying means which has a document display field which can display said document data.

A display control means which displays document data corresponding to a selected field in a document display field of said displaying means when the document selected area which consists of two or more fields which correspond to two or more document data individually is displayed on said displaying means and a single field is chosen out of two or more fields of this document selected area.

[Claim 2] The document indicating equipment according to claim 1 characterized by displaying said document selected area on said displaying means only when it indicates that said display control means is connected with document data of others [document data / concerned / predetermined] with associated data of predetermined document data.

[Claim 3] The document indicating equipment according to claim 1, wherein said document selected area includes a transportation device for carrying out as [be / movable], being displayed on said displaying means, and moving this document selected area.

[Claim 4] The document indicating equipment according to claim 1, wherein said document selected area includes a setting means which specifies whether it carries out as [eliminate / it], and is displayed on said displaying means, and this document selected area is displayed, or it eliminates.

[Claim 5] Document data characterized by comprising the following for displaying a multimedia document containing a picture, a character, etc.

A memory measure which memorizes document data containing associated data in which it is shown whether it is connected with other document data.

A displaying means which has a document display field which can display said document data.

A setting means which specifies a display to said displaying means of the document selected area which consists of two or more fields which correspond to two or more document data individually.

When the document selected area is displayed on said displaying means instead of a document display field and a single field is chosen out of two or more fields of this document selected area based on specification by said setting means, A display control means on which document data corresponding to a field which made display a document display field on said displaying means instead of the document selected area, and was chosen into this document display field is displayed.

[Claim 6] The document indicating equipment according to claim 1 or 5 said display control means's changing document data by a conversion condition which can be defined beforehand, and making it display it in a field where the document selected area corresponds.

[Claim 7] A reading means or document data which reads a manuscript in which a multimedia document was drawn to document data including a reception means received from external terminal equipment to said memory measure. The document indicating equipment according to claim 1 or 5, wherein document data acquired by a reading means or reception means is memorized.

[Claim 8] The document indicating equipment according to claim 7 making it indicate that said display control means is in the midst of said reading means or

a reception means acquiring document data using said displaying means.

[Claim 9]The document indicating equipment according to claim 7, wherein it also memorizes document data corresponding to a field of the remainder which was not chosen while memorizing document data corresponding to this field, when said memory measure is chosen [a single field] out of two or more fields of said document selected area.

[Claim 10]Said document data is the document data which comprised HTML language which not performing performing a frame function displayed with other document data or this frame function can specify, The document indicating equipment according to claim 1 or 5 when said display control means is specified [performing a frame function], wherein it displays the document selected area on said displaying means.

[Claim 11]The document indicating equipment according to claim 10 when said display control means is specified [not performing a frame function with document data which comprised HTML language], wherein it displays this document data in said document display field.

DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention]This invention relates to the document indicating equipment which displays the multimedia document containing a picture, a character, etc.

[0002]

[Description of the Prior Art]Drawing 23 is a figure showing the display screen 30 of the document indicating equipment which is conventional technology. Conventional document indicating equipment can memorize two or more document data for displaying a multimedia document. This document data contains the associated data in which it is shown whether it is connected with other document data. Associated data is data in which it is shown whether it is necessary to display, for example on a display screen simultaneously. As the document data shown are mutually related with such associated data is shown in drawing 23, it is displayed on two or more document display fields 31a-31c which classify the display screen 30, respectively.

[0003]When all document data cannot be displayed on one document display field, in this document display field, document data is constituted by transportation devices, such as the scroll bar 32, so that a scroll display is possible, by this, all the document data is divided and an indication is given possible.

[0004]Such a display especially is suitably carried out, when dealing with the document described with HTML language as a multimedia document. In HTML language, it is possible to specify that it displays two or more documents simultaneously by a frame function, when performing this frame function, a display screen is divided into a predetermined number in the conventional HTML browser, and the layout result of two or more documents is simultaneously displayed on the display screen. This function is adopted with goods, such as Netscape Navigator of the Netscape communication corporation, and Internet Explorer of Microsoft Corp.

[0005]

[Problem(s) to be Solved by the Invention]However, in the case where the resolution of a display is low, or the case of a display surface product where it is small, the rate that the boundary layer portion of the adjoining fields to a whole sentence document viewing area, the scroll bar portion in each field, etc. occupy becomes large. In the small document indicating equipment constituted for the purpose of a cellular phone, there is a limit in the size of a character from a point of readability, and the amount of displayable datas is restricted.

Therefore, if two or more documents are simultaneously displayed on a single display screen, the displaying volume of each document will decrease and overall visibility will fall. In the case where it is specified that it displays two or more documents simultaneously by the frame function of the HTML language mentioned above, and a specific meaning is shown by two or more whole documents by it, especially the fall of overall visibility is a problem.

[0006]The purpose of this invention is to provide the document indicating equipment with which visibility high as two or more whole documents is acquired, without displaying two or more mutually related documents on a single displaying means simultaneously.

[0007]

[Means for Solving the Problem]When the document selected area is displayed on said displaying means and a single field is chosen out of two or more fields of this document selected area, this invention, Document data for displaying a multimedia document characterized by comprising the following containing a picture, a character, etc. on document indicating equipment including a display control means which displays document data corresponding to a selected field in a document display field of said displaying means.

A memory measure which memorizes document data containing associated data in which it is shown whether it is connected with other document data.

A displaying means which has a document display field which can display said document data.

Two or more fields which correspond to two or more document data individually.

If this invention is followed, the document selected area will be displayed on a displaying means and a single field will be chosen out of two or more fields of this document selected area, document data corresponding to a selected field will be displayed in a document display field of a displaying means. Therefore, a relation of two or more document data, for example, physical relationship, can be recognized according to physical relationship of each field of the document selected area, and specific document data can be displayed in a document display field, and can be recognized. Both a document display field and the document selected area can be displayed on a displaying means. Thus, visibility high as two or more whole documents can be acquired, without displaying two or more documents on a single displaying means simultaneously.

[0008]This invention displays said document selected area on said displaying means, only when it indicates that said display control means is connected with document data of others [document data / concerned / predetermined] with associated data of predetermined document data. Since the document selected area always is not displayed, but it will be displayed only when document data is connected with other document data if this invention is followed, it can be made to know by existence of the document selected area whether there is any related document data or there is nothing. Since an unnecessary field is not displayed when there is no document data related at the time [document data] in which only a document display field is displayed, visibility can be improved.

[0009]Said document selected area is carried out as [be / movable], and is displayed on said displaying means, and this invention includes a transportation device for moving this document selected area. If this invention is followed, the document selected area will be displayed movable. By a transportation device, the document selected area can be displayed on a position to which it pointed by directing movement of the document selected area. For example, you may superimpose and display on a document display field. Therefore, the document selected area can be displayed so that an operator may be legible, and visibility can be improved.

[0010]This invention includes a setting means which specifies whether said document selected area is carried out as [eliminate / it], and is displayed on said displaying means, and this document selected area is displayed, or it eliminates. If this invention is followed, the document selected area can be

displayed so that elimination is possible, it can be specified by a setting means, and can eliminate the document selected area. For example, after a document which should be displayed on a document display field is become final and conclusive, the unnecessary document selected area can be eliminated and visibility can be improved.

[0011]A memory measure which memorizes document data containing associated data in which it is shown whether this invention is document data for displaying a multimedia document containing a picture, a character, etc., and is connected with other document data, A setting means which specifies a display to a displaying means which has a document display field which can display said document data, and said displaying means of the document selected area which consists of two or more fields which correspond to two or more document data individually, When the document selected area is displayed on said displaying means instead of a document display field and a single field is chosen out of two or more fields of this document selected area based on specification by said setting means, It is document indicating equipment including a display control means on which document data corresponding to a field which made display a document display field on said displaying means instead of the document selected area, and was chosen into this document display field is displayed. If this invention is followed, only the document selected area can be displayed on a displaying means, and when choosing a document displayed on a document display field, only the document selected area can be displayed. Visibility can be improved by expanding over this whole time, for example, display screen, and displaying the document selected area.

[0012]This invention changes document data by a conversion condition which can be defined beforehand, and makes said display control means display it in a field where the document selected area corresponds. If this invention is followed, it will be corresponding document data and document data changed by a conversion condition defined beforehand will be displayed on each field in the document selected area. Therefore, an outline of document data can be recognized also in the document selected area.

[0013]Document data from which this invention was acquired by said memory measure by reading means or a reception means including a reception means which receives a reading means or document data which reads document data in a manuscript in which a multimedia document was drawn from external terminal equipment is memorized. If this invention is followed, the above document selected area and a document display field can be created about document data acquired from a reading means or a reception means.

[0014]This invention makes it indicate that said display control means is in the midst of said reading means or a reception means acquiring document data using said displaying means. If this invention is followed, it will be displayed and reported that it is in the midst of a reading means or a reception means acquiring document data. For example, a display is blinked and it is reported that it is during acquisition of document data. Therefore, the operator can recognize easily that it is during acquisition of document data.

[0015]This invention also memorizes document data corresponding to a field of the remainder which was not chosen while memorizing document data corresponding to this field, when said memory measure is chosen [a single field] out of two or more fields of said document selected area. If this invention is followed, not only document data corresponding to a single field selected from two or more fields of the document selected area but document data corresponding to a field of the remainder which was not chosen will be memorized by memory measure. Therefore, all the document data can be memorized and it can carry out easily changing a display in a document display field using this document data etc.

[0016]This invention is the document data which comprised HTML language which not performing that said document data performs a frame function displayed with other document data or this frame function can specify, Said display control means displays the document selected area on said displaying means, when performing a

frame function is specified. When following this invention and performing a frame function with HTML language is specified, If the document selected area is displayed on a displaying means and a single field is chosen out of two or more fields of this document selected area, document data corresponding to a selected field will be displayed in a document display field of a displaying means. Therefore, even if it is document data which comprises HTML language, visibility high as two or more whole documents can be acquired, without displaying two or more documents on a single displaying means simultaneously.

[0017] This invention displays this document data in said document display field, when it is specified that said display control means does not perform a frame function with document data which comprised HTML language. Since document data in which not performing a frame function was specified will be promptly displayed in a document display field if this invention is followed, a document can be displayed on a document display field, without performing operation of choosing a single field from the document selected area, and operativity improves. When displaying a document selected using the document selected area when a frame function was performed on a document display field and not performing a frame function on the other hand, two functions to display a document on a document display field promptly can be performed suitably.

[0018]

[Embodiment of the Invention] Drawing 1 is a block diagram showing the electric constitution of the document indicating equipment 1a which is a 1st embodiment of this invention. The document indicating equipment 1a is constituted including the input part 2, the storage parts store 3, the indicator 4, and the display control part 5. The document indicating equipment 1a is formed comparatively small for the purpose of carrying, for example.

[0019] It realizes, for example by RAM (random access memory) or ROM (read-only memory), and the storage parts store 3 memorizes document data at least. Document data is data for displaying the multimedia document containing a picture, a character, etc., and is data containing the associated data in which it is shown whether it is connected with other document data. Associated data is data in which it is shown whether it is necessary to display document data on a display screen simultaneously with other document data, for example.

[0020] It realizes, for example by LCD (liquid crystal display), and the display screen has a document display field which can display said document data, and the indicator 4 also has the document selected area mentioned later.

[0021] It realizes, for example by CPU (central processing unit), and the display control part 5 controls the display action of the whole document-indicating-equipment 1a according to the operation program defined beforehand. When the document selected area which consists of two or more fields which correspond to two or more document data specifically related mutually individually is displayed on the display screen of the indicator 4 and a single field is chosen out of two or more fields of this document selected area, The document data corresponding to the selected field is displayed in the document display field of the indicator 4.

[0022] From the input part 2, a single field is specified out of two or more fields of the document selected area. It is realizable with the comparatively small existing input device, for example, this input part 2 has translucency and can realize it with a tablet provided with the input screen arranged by superimposing on the display surface of the indicator 4, and the input pen for specifying the coordinate point on the axis of coordinates beforehand set as said input screen. A keyboard etc. may realize.

[0023] Drawing 2 (A) - drawing 2 (C) are the figures showing the display screens 6a-6c of the indicator 4, respectively. The display screens 6a-6c have the document display field 7, respectively. The document selected area 8 is displayed on the display screens 6a-6c by control of said display control part 5, respectively.

[0024] For example, when it indicates that data is mutually related with the associated data of the 1st - the 3rd document data, the document selected area 8

which consists of the 1st - the 1st respectively corresponding to the 3rd document data - the 3rd field 8a-8c is displayed. This document selected area 8 shows the situation, for example, the physical relationship of each document, when three document data is simultaneously displayed on a single display screen. That is, it is shown that the 1st document data is displayed on the 1st field 8a, the 2nd document data is displayed on the 2nd field 8b, and the 3rd document data is displayed on the 3rd field 8c. The document display field 7 shows the contents of the concrete document.

[0025] If the 1st field 8a of the document selected area 8a-8c is specified by said input part 2, as shown in drawing 2 (A), The 1st document data corresponding to the 1st field 8a that the field 8a emphasized by an attribute which is different in other fields 8b and 8c, for example, a color, and shading, was displayed, and was specified is displayed on the document display field 7. If the 2nd field 8b is similarly specified by the input part 2, as shown in drawing 2 (B), the field 8b will emphasize, and will be displayed, and the 2nd document data corresponding to the 2nd field 8b will be displayed on the document display field 7. If the 3rd field 8c is specified by the input part 2, as shown in drawing 2 (C), the field 8c will emphasize, and will be displayed, and the 3rd document data corresponding to the 3rd field 8c will be displayed on the document display field 7.

[0026] Drawing 3 is a flow chart which shows creation operation of the document selected area 8 of the document indicating equipment 1a. In Step a1, the document data which should be displayed is read in the document indicating equipment 1a. The read document data is decoded in Step a2. In Step a3, it is judged as a result of a decipherment whether it is the document data shown that the read document data is connected with other document data. That is, it is judged whether it is a document which should be displayed simultaneously with other documents. Operation is ended when it is judged that it is not a document which should be followed and displayed on Step a4 when it is judged that it is a document which should be displayed.

[0027] The document arrangement information 10a is generated in Step a4. In this document arrangement information 10a, for example in drawing 2. It is the information which specifies the 1st - the 3rd field 8a-8c in the document selected area 8, and as shown in drawing 4, it is constituted including the area identification child 11 who identifies each field, the coordinate point 12 which shows the starting point of a display of each field, the coordinate point 13 which shows the terminal point of a display of each field, and each document name 14.

[0028] In Step a5, the document selected area 8 which consists of the 1st - the 3rd field 8a-8c based on the created document arrangement information 10a is displayed on the indicator 4, display-processing operation of two or more sentence document by this document selected area 8 which is mentioned later is performed, and operation is ended.

[0029] Drawing 5 is a flow chart which shows display-processing operation of two or more sentence document of said step a5 in detail. In Step b1, it is determined how each document should be arranged and displayed using said document arrangement information 10a, and it is reflected in the document selected area 8 at Step b2. That is, it carries out based on the document arrangement information 10a, and in the document selected area 8 of the state A1 by which it is shown in drawing 6 (A), the 1st field 8a is set up in the state of [A2] drawing 6 (B), the 2nd field 8b is set up by state A3 of drawing 6 (C), and the 3rd field 8c is set up by state A4 of drawing 6 (D).

[0030] The input from an operator is processed in Step b3. In Step b4, it is judged by the input from an operator whether the specific document was chosen. For example, it is judged whether any 1 field in two or more fields 8a-8c of the document selected area 8 was directed and chosen with the input pen of the input part 2. When the document data corresponding to the field followed and chosen as Step b5 is displayed on the document display field 7, and it returns to Step b3, when it is judged that it was chosen, and it is judged that it is not chosen, it

returns to Step b3 as it is.

[0031] If the document selected area 8 is displayed on the indicator 4 and a single field is chosen according to a 1st embodiment out of two or more fields 8a-8c of this document selected area 8 as mentioned above, Since the document data corresponding to the single selected field was displayed in the document display field 7 of the indicator 4, the relation of two or more document data, for example, physical relationship, can be recognized according to the physical relationship of each fields 8a-8c of the document selected area 8. Specific selected document data is displayed in the document display field 7, and can recognize concrete contents. Visibility high as two or more whole documents can be acquired without displaying simultaneously the concrete contents of two or more sentence document on the single indicator 4 that both the document display field 7 and the document selected area 8 can be displayed on the indicator 4. In particular, even if it is small screens, such as a case where the resolution of the indicator 4 is low, and a portable device, the large viewing area which one document data occupies can be taken, and visibility can be improved.

[0032] Drawing 7 is a flow chart which shows operation of the document indicating equipment which is a 2nd embodiment of this invention. Although this document indicating equipment is constituted like said document indicating equipment 1a, it is characterized by display-processing operation of two or more sentence document of Step a5 of drawing 3 being drawing 7 instead of drawing 5. The flow chart of drawing 7 adds Step b6 and b7 to Steps b1-b3 of the flow chart of drawing 5, and explanation of the same operation is omitted. Explanation of an equipment configuration is also omitted.

[0033] In Step b6 in which the input from an operator was processed at Step b3, it is judged whether it is what is directed that the input from an operator displays the document which does not need to display two or more documents simultaneously. When judgment is affirmation, it progresses to Step b7, the document selected area 8 is eliminated, and it returns to Step b3, and when judgment is denial, it returns to Step b3 as it is.

[0034] According to a 2nd embodiment, the document selected area 8 is not displayed as mentioned above. That is, it is not displayed when displaying the document which does not need to display two or more documents simultaneously by the input from an operator is directed. Therefore, only when document data is connected with other document data, the document selected area 8 can be displayed. Since an unnecessary field is not displayed when there is no document data related at the time [document data] in which only the document display field 7 is displayed, visibility can be improved.

[0035] Drawing 8 is a figure showing 6 d of display screens of the document indicating equipment which is a 3rd embodiment of this invention. Although constituted like said document indicating equipment 1a, the document selected area 8 carries out this document indicating equipment as [be / movable], and it is displayed on the indicator 4, and the move appointed field 9 for moving this document selected area 8 is attached, and it is displayed.

[0036] Drawing 9 is a flow chart which shows operation of the document indicating equipment of a 3rd embodiment. This document indicating equipment is characterized by display-processing operation of two or more sentence document of Step a5 of drawing 3 of said document indicating equipment 1a being drawing 9 instead of drawing 5. The flow chart of drawing 9 adds Step b8 and b9 to Steps b1-b3 of the flow chart of drawing 5, and explanation of the same operation is omitted. Explanation of an equipment configuration is also omitted.

[0037] In Step b8 in which the input from an operator was processed at Step b3, it is judged whether the input from an operator is what enables movement of the document selected area 8. Movable specification of the document selected area 8 is performed by directing the move appointed field 9, for example with the input pen of the input part 2. Thus, the move appointed field 9 also becomes movable about a display screen top with the document selected area 8. When move **** is directed, it progresses to Step b9, the document selected area 8 and the move

appointed field 9 are moved to a desired position, and it returns to Step b3, and when move **** is not directed, it returns to Step b3 as it is. After moving the document selected area 8 and the move appointed field 9 to a desired position, the document selected area 8 and the move appointed field 9 are fixed and displayed on a desired position by specifying the end of moving processing from the input part 4.

[0038]According to a 3rd embodiment, the document selected area 8 is displayed movable with the move appointed field 9 as mentioned above. By pointing to the move appointed field 9 and making the document selected area 8 movable, the document selected area 8 and the move appointed field 9 can be displayed on a desired position. For example, as shown in drawing 8, you may superimpose and display on the document display field 7. Therefore, the document selected area 8 can be displayed so that an operator may be legible, and visibility can be improved.

[0039]Drawing 10 is a flow chart which shows operation of the document indicating equipment which is a 4th embodiment of this invention. Although this document indicating equipment is constituted like said document indicating equipment 1a, it is characterized by display-processing operation of two or more sentence document of Step a5 of drawing 3 being drawing 10 instead of drawing 5. The flow chart of drawing 10 adds Steps b10-b13 to Steps b1-b3 of the flow chart of drawing 5, and explanation of the same operation is omitted. Explanation of an equipment configuration is also omitted.

[0040]In Step b10 in which the input from an operator was processed at Step b3, it is judged whether the input from an operator is what directs elimination of the document selected area 8. When judgment is affirmation, it progresses to Step b11, the document selected area 8 is eliminated, and it returns to Step b3, and when judgment is denial, it progresses to Step b12.

[0041]In Step b12, it is judged whether the input from an operator is what directs the display of the document selected area 8. When judgment is affirmation, it progresses to Step b13, the document selected area 8 is displayed, and it returns to Step b3, and when judgment is denial, it returns to Step b3 as it is.

[0042]According to a 4th embodiment, an operator can choose elimination and a display of the document selected area 8 arbitrarily as mentioned above. If the document which can specify elimination by the input part 4, and can eliminate the document selected area 8, for example, is displayed on the document display field 9 is become final and conclusive, the document selected area 8 is eliminable. Therefore, the document selected area 8 which became unnecessary can be eliminated, and visibility can be improved. Change of the document which can specify a display by the input part 4, and can display the document selected area 8, for example, is displayed on the document display field 9 is attained.

[0043]Drawing 11 is a figure showing the display screens 6e and 6f of the document indicating equipment which is a 5th embodiment of this invention, respectively. Although this document indicating equipment is constituted like said document indicating equipment 1a, only the document selected area 8 is displayed on the indicator 4. As first shown in drawing 11 (A), specifically, the display appointed field 17 and the document display field 7 which specify the display of the document selected area 8 are displayed on the display screen 6e. Next, if the display appointed field 17 is directed, for example with the input pen of the input part 2, as shown in drawing 11 (B), 6 f of display screens as which only the document selected area 8 was displayed will be formed. This document selected area 8 is classified into two or more fields 8a-8f which were mentioned above. At this time, the document display field 8 may be expanded and displayed over the whole display screen.

[0044]Drawing 12 is a flow chart which shows operation of the document indicating equipment of a 5th embodiment. This document indicating equipment is characterized by display-processing operation of two or more sentence document of Step a5 of drawing 3 of said document indicating equipment 1a being drawing 12

instead of drawing 5. The flow chart of drawing 12 adds Step b14 and b15 to Steps b1-b5 of the flow chart of drawing 5, and explanation of the same operation is omitted. Explanation of an equipment configuration is also omitted.

[0045]First, in the state where the display screen 6e shown in drawing 11 (A) was displayed, it is judged at Step b14 in which the input from an operator was processed at Step b3 whether the display appointed field 17 was chosen by the input from an operator. When chosen, it progresses to Step b15. When not chosen, it returns to Step b3. In Step b15, 6 f of display screens shown in drawing 11 (B) are displayed, and it progresses to Step b4.

[0046]In Step b4, it is judged by the input from an operator whether the single field was chosen out of two or more fields 8a-8f of the document selected area 8. When chosen, the document data corresponding to the field followed and chosen as Step b5 is displayed on the document display field 7, the display screen 6e as shown in drawing 11 (A) is displayed, and it returns to Step b3. When not chosen, it returns to Step b3 as it is.

[0047]When choosing the document displayed on the document display field 7 as mentioned above according to a 5th embodiment, only the document selected area 8 can be displayed. Visibility can be improved by displaying the document selected area 8 over this the whole time, for example, display screen.

[0048]Drawing 13 is a figure showing the document display field 7 and the document selected area 8 of the document indicating equipment which is a 6th embodiment of this invention. Although this document indicating equipment is constituted like said document indicating equipment 1a, it is displayed on the field 8a to which document data is changed by the conversion condition defined beforehand, and it corresponds in the document selected area 8.

[0049]As concretely shown in drawing 13 (A), a reduced display is carried out to the document display field 7 where document data was displayed with the document data changed also into the field 8a to which the document selected area 8a corresponds to drawing 13 (B) so that it may be shown.

[0050]Drawing 14 is a flow chart which shows the display action of the document selected area 8 of the document indicating equipment of a 6th embodiment. In Step c1, the portion which can be displayed is computed from document data. That is, the document data portion which should be displayed on the field 8a is computed. For example, when the document selected area 8 is made into the same size as the document display field 7, the document data portion which is in agreement with the field 8a is computed.

[0051]In Step c2, the document data of the computed portion is changed according to the conversion condition which can be defined beforehand. For example, display information is reduced by a ratio when the document selected area 8 is made into the same size as the document display field 7. For example, as shown in drawing 15, the reduced-display classification 16, such as a dotted line, a rectangle, and simple reduction, is matched to the display element classification 15, such as a character, a picture, and a figure, respectively, and it is changed according to this condition. The changed document data is expressed to the field 8a as Step c3.

[0052]A character, a picture, and a figure as shown in drawing 13 (A) are changed and displayed on a dotted line, a rectangle, and simple reduction by such processing, as shown in drawing 13 (B).

[0053]According to a 6th embodiment, the corresponding document data changed by the conversion condition defined beforehand is displayed on each field in the document selected area 8 as mentioned above. Therefore, document data can be recognized also in the document selected area 8. For example, an outline can be recognized.

[0054]Drawing 16 is a block diagram showing the electric constitution of the document indicating equipment 1b which is a 7th embodiment of this invention. The document indicating equipment 1b is constituted including further the hour meter side portion 18 and the Records Department 19, although constituted almost like said document indicating equipment 1a.

[0055]The Records Department 19 is a reading means which reads document data in the manuscript in which the multimedia document was drawn. The document data acquired by the Records Department 19 is memorized by the storage parts store 3. The hour meter side portion 18 measures the time set beforehand.

[0056]Said display control part 5 indicates that it is in the midst of the Records Department 19 acquiring document data using said indicator 4, and reports it to an operator.

[0057]Drawing 17 is a flow chart which shows read in operation of the document data of the document indicating equipment 1b. In Step d1, the document data which should be displayed is read into the document indicating equipment 1b from the Records Department 19. It is judged in Step d2 whether read in was completed. When it is judged that it has not ended, it progresses to Step d3, and it is judged whether measurement of the time by the hour meter side portion 18 set beforehand was completed. When it is judged that measurement was completed, it special-displays, for example, it blinks and the contents currently followed and displayed on Step d4 are displayed, and it returns to Step d1. When it is judged that measurement of the time beforehand set at Step d3 is not completed, it returns to Step d1.

DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1]It is a block diagram showing the electric constitution of the document indicating equipment 1a which is a 1st embodiment of this invention.

[Drawing 2]Drawing 2 (A) - drawing 2 (C) are the figures showing the display screens 6a-6c of the indicator 4, respectively.

[Drawing 3]It is a flow chart which shows creation operation of the document selected area 8 of said document indicating equipment 1a.

[Drawing 4]It is a figure showing the document arrangement information 10a.

[Drawing 5]It is a flow chart which shows display-processing operation of two or more sentence document of Step a5 of drawing 3 in detail.

[Drawing 6]It is a figure for explaining the procedure of setting up two or more fields in the document selected area 8.

[Drawing 7]It is a flow chart which shows operation of the document indicating equipment which is a 2nd embodiment of this invention.

[Drawing 8]It is a figure showing 6 d of display screens of the document indicating equipment which is a 3rd embodiment of this invention.

[Drawing 9]It is a flow chart which shows operation of the document indicating equipment of a 3rd embodiment.

[Drawing 10]It is a flow chart which shows operation of the document indicating equipment which is a 4th embodiment of this invention.

[Drawing 11]It is a figure showing the display screens 6e and 6f of the document indicating equipment which is a 5th embodiment of this invention, respectively.

[Drawing 12]It is a flow chart which shows operation of the document indicating equipment of a 5th embodiment.

[Drawing 13]It is a figure showing the document display field 7 and the document selected area 8 of the document indicating equipment which is a 6th embodiment of this invention.

[Drawing 14]It is a flow chart which shows the display action of the document selected area 8 of the document indicating equipment of a 6th embodiment.

[Drawing 15]It is a figure showing the conversion condition defined beforehand when changing document data.

[Drawing 16]It is a block diagram showing the electric constitution of the document indicating equipment 1b which is a 7th embodiment of this invention.

[Drawing 17] It is a flow chart which shows read in operation of the document data of the document indicating equipment 1b.

[Drawing 18] It is a block diagram showing the electric constitution of the document indicating equipment 1c which is a modification of a 7th embodiment of this invention.

[Drawing 19] It is a flow chart which shows the storage operation of the document data to the storage parts store 3 of the document indicating equipment which is an 8th embodiment of this invention.

[Drawing 20] It is a figure showing the document arrangement information 10b.

[Drawing 21] It is a flow chart which shows the acquisition operation of the document arrangement information 10b.

[Drawing 22] It is a figure for explaining the acquisition operation of the document arrangement information 10b.

[Drawing 23] It is a figure showing the display screen 30 of the document indicating equipment which is conventional technology.

[Description of Notations]

1a, 1b, and 1c Document indicating equipment

2 Input part

3 Storage parts store

4 Indicator

5 Display control part

6a-6f Display screen

7 Document display field

8 Document selected area

8a-8f Field

9 Move appointed field

17 Display appointed field

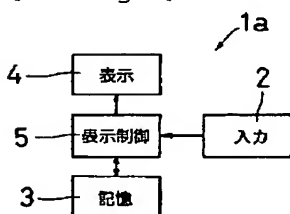
18 Hour meter side portion

19 Records Department

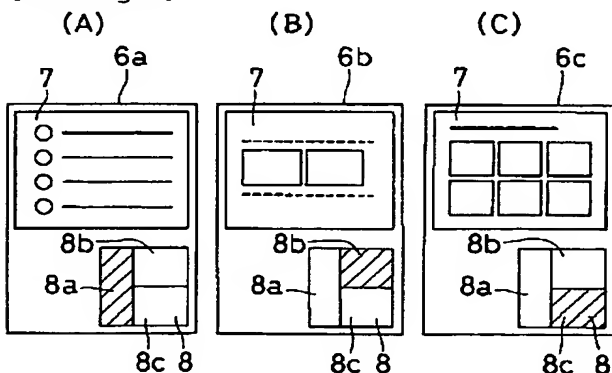
20 Communication control part

DRAWINGS

[Drawing 1]



[Drawing 2]

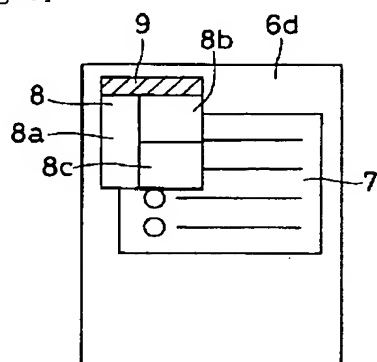


[Drawing 4]

10a

領域識別子	始点	終点	文書名
1	(0,0)	(30,100)	第1文書
2	(30,0)	(100,50)	第2文書
3	(30,50)	(100,100)	第3文書

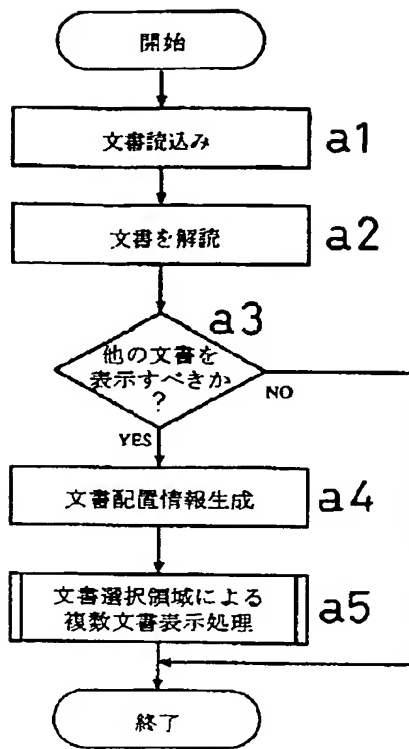
[Drawing 8]



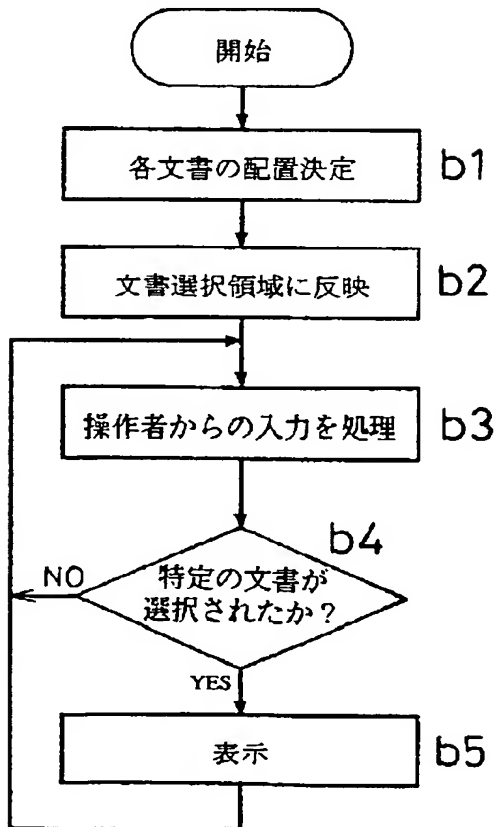
[Drawing 15]

表示要素種別	縮小表示要素
文字	点線
画像	矩形
図形	単純縮小

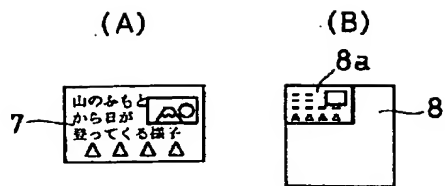
[Drawing 3]



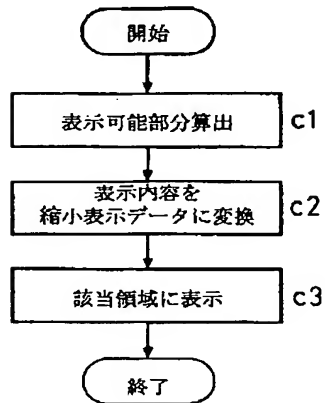
[Drawing 5]



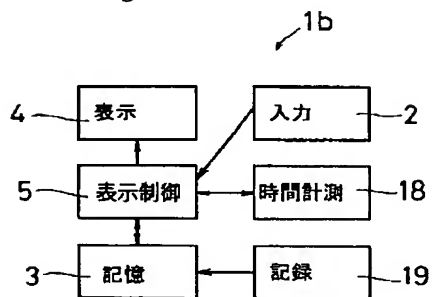
[Drawing 13]



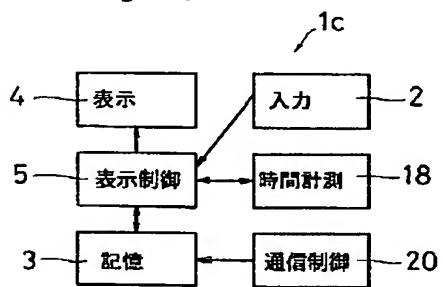
[Drawing 14]



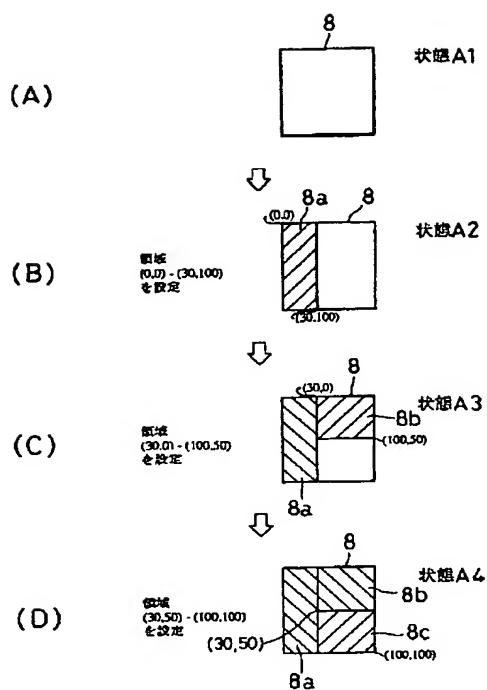
[Drawing 16]



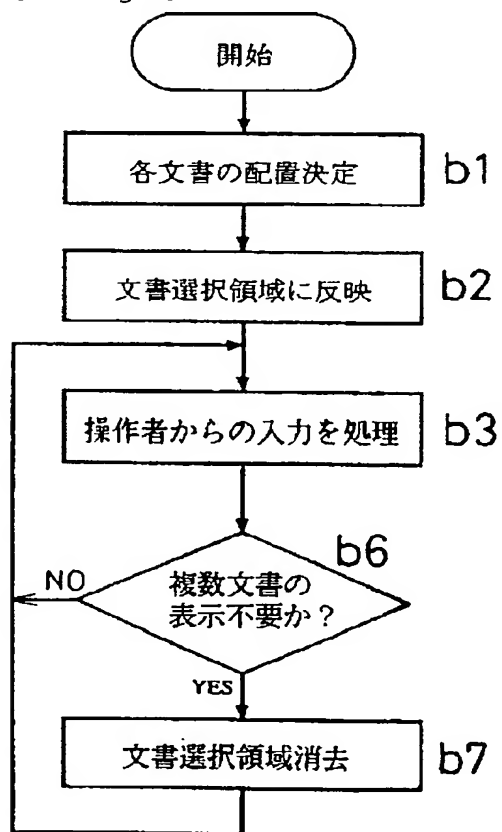
[Drawing 18]



[Drawing 6]



[Drawing 7]

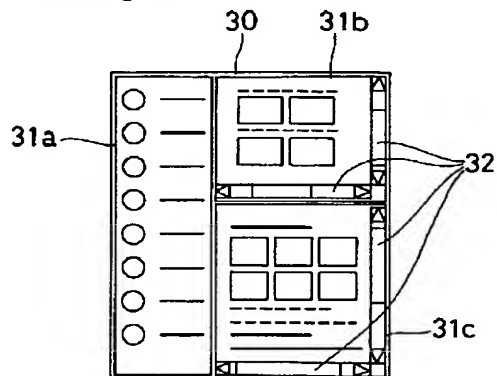


[Drawing 20]

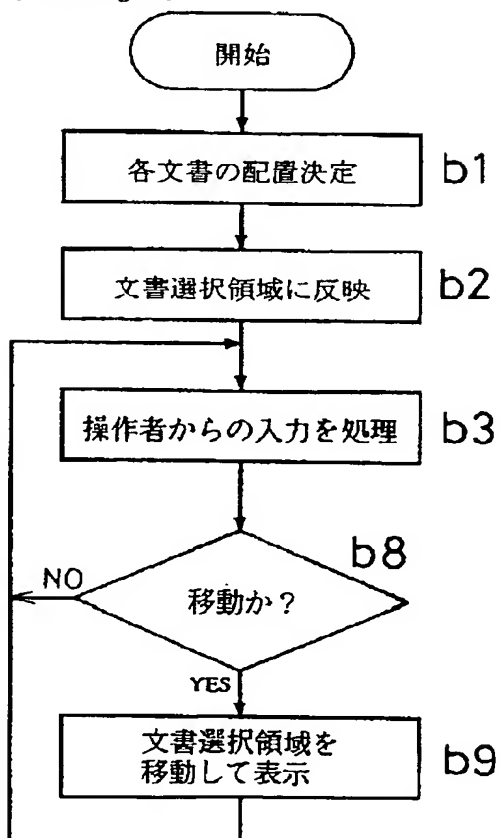
10b

11 領域識別子	12 始点	13 終点	14 文書名
1	(0,0)	(50,100)	document1.html
2	(50,0)	(100,40)	document2.html
3	(50,40)	(100,100)	document3.html

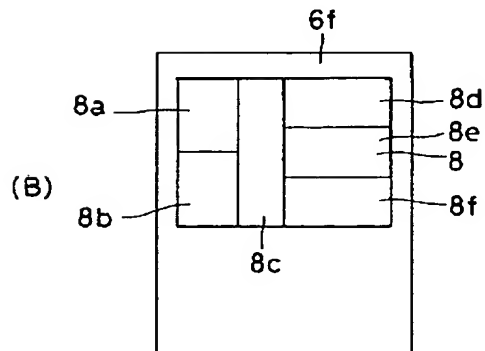
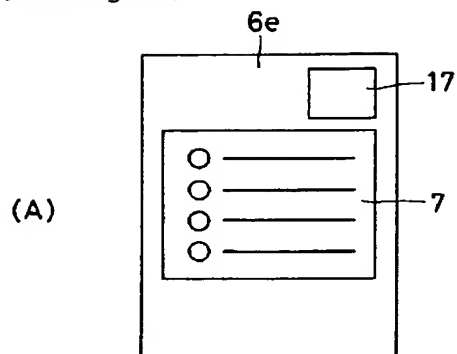
[Drawing 23]



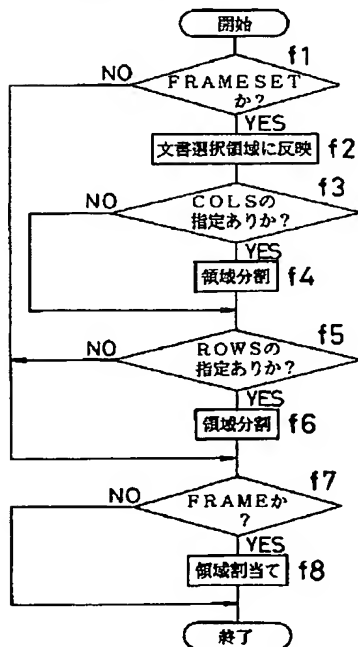
[Drawing 9]



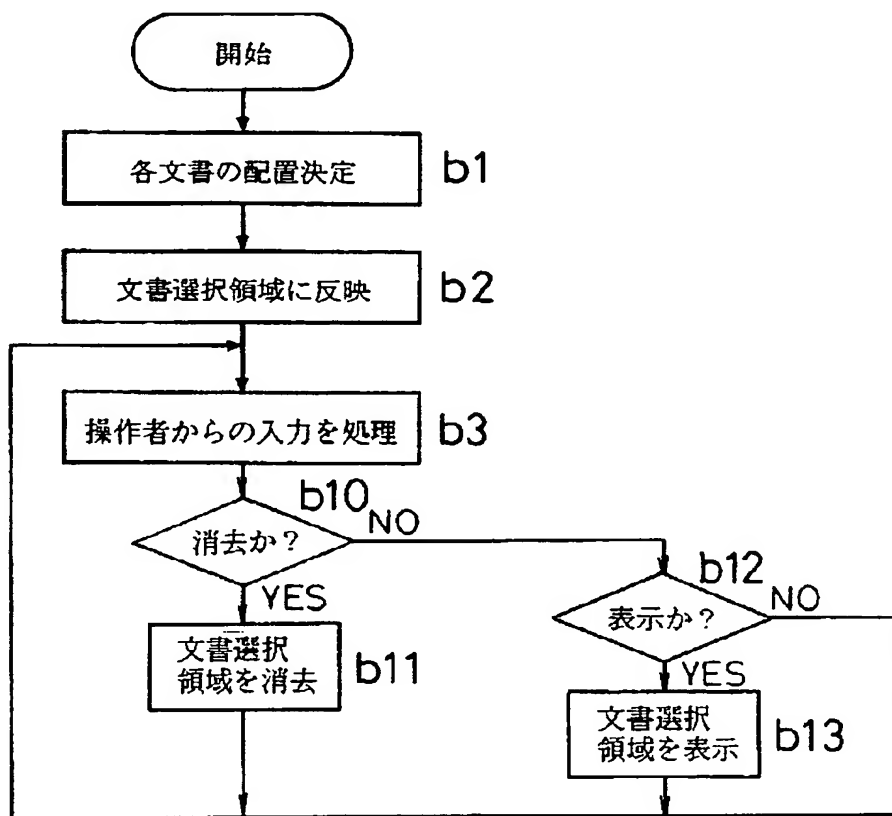
[Drawing 11]



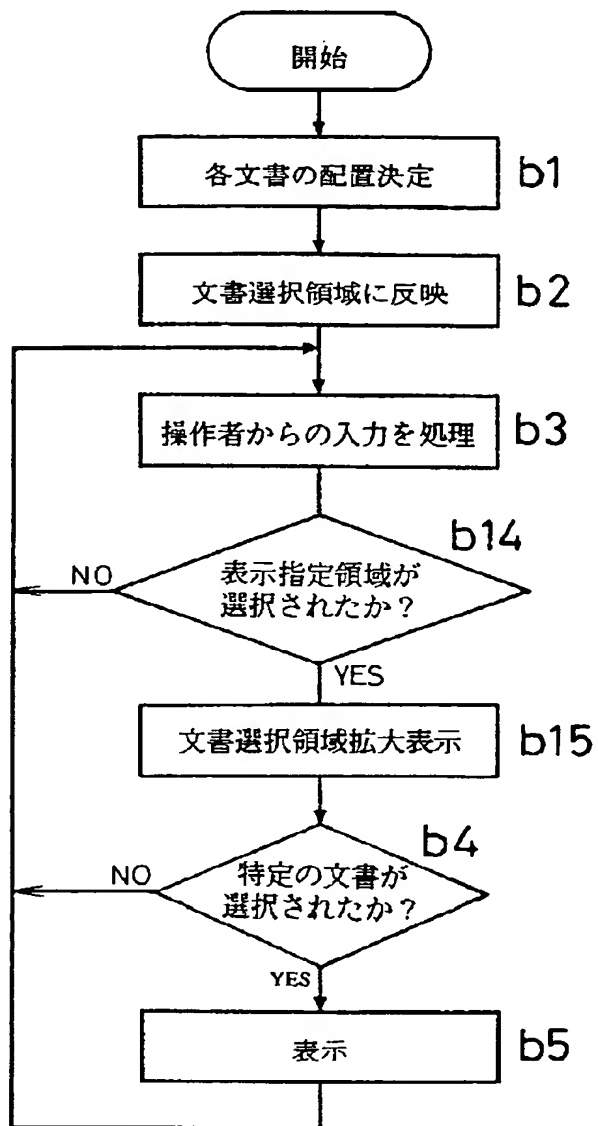
[Drawing 21]



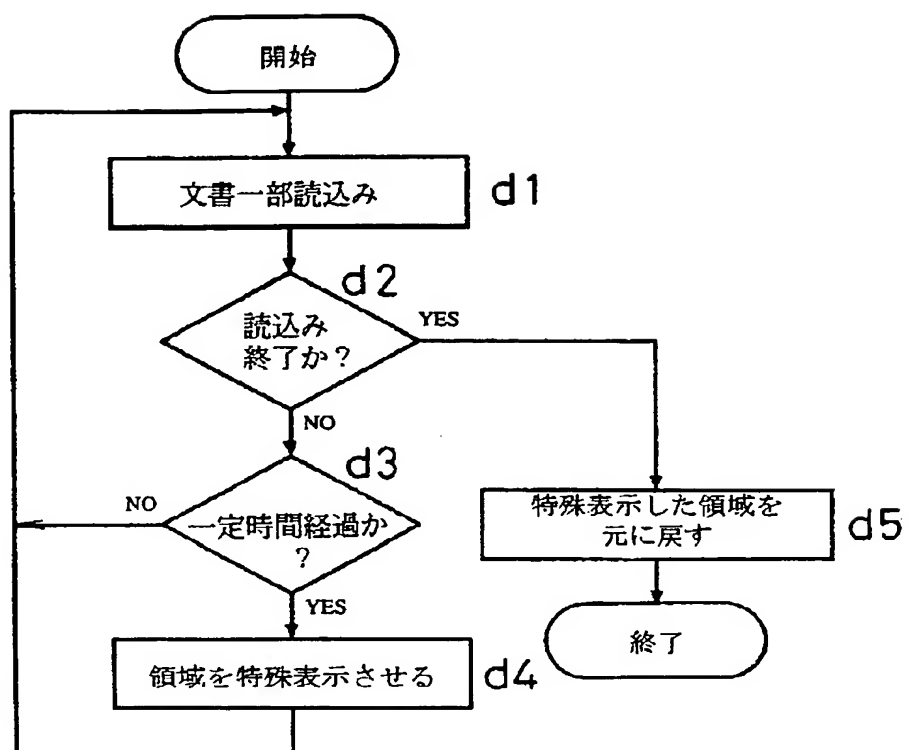
[Drawing 10]



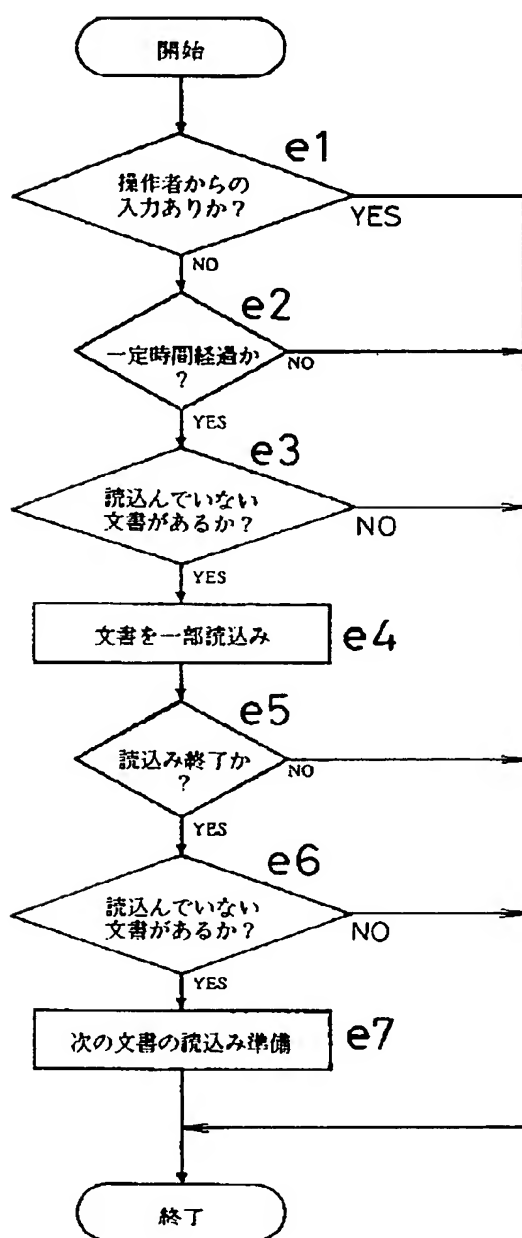
[Drawing 12]



[Drawing 17]



[Drawing 19]



[Drawing 22]

